



## Tetrahedron Vol. 66, Issue 10, 2010

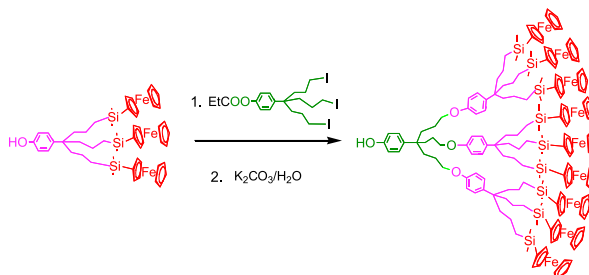
## Contents

## REPORT

## Organoiron-mediated dendrimer syntheses with 1 → 3 connectivity and applications

pp 1769–1785

Didier Astruc\*, Jaime Ruiz



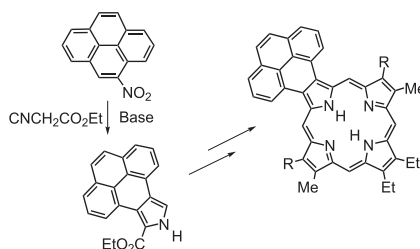
CpFe<sup>+</sup>-mediated benzylic arene allylation followed by Michael, Williamson, 'click' or cross-metathesis reactions with 1 → 3 connectivity allows fast dendron and dendrimer growth with multiple applications.

## ARTICLES

## Porphyrins with exocyclic rings. Part 24. Synthesis and spectroscopic properties of pyrenoporphyrrins, potential building blocks for porphyrin molecular wires

pp 1787–1799

Virajkumar Gandhi, Michelle L. Thompson, Timothy D. Lash\*



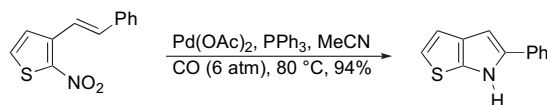
Reaction of 4-nitropyrene with ethyl isocyanoacetate in the presence of a phosphazene base gave excellent yields of a pyrenopyrrole. This pentacyclic system was used to prepare pyrenoporphyrrins, dipyrenoporphyrrins and a porphyrin with fused phenanthroline and pyrene rings.



**Palladium-catalyzed reductive N-heterocyclization of alkenyl-substituted nitroarenes as a viable method for the preparation of bicyclic pyrrolo-fused heteroaromatic compounds**

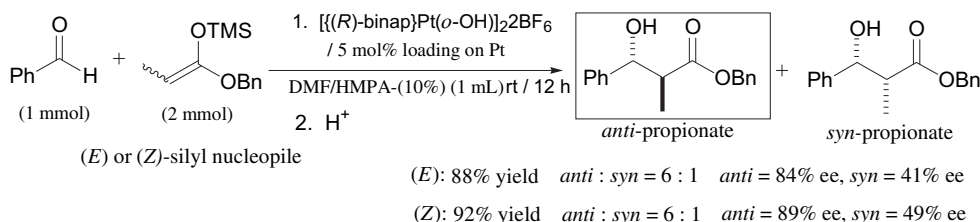
pp 1800–1805

Sobha P. Gorugantula, Grissell M. Carrero-Martínez, Shubhada W. Dantale, Björn C.G. Söderberg\*


**Platinum(II) complex-catalyzed enantioselective aldol reaction with ketene silyl acetals in DMF at room temperature**

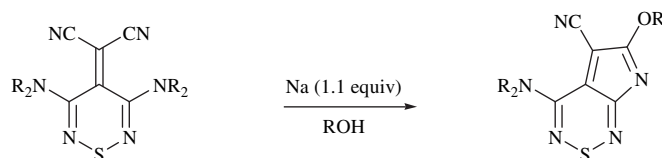
pp 1806–1816

Syun-ichi Kiyooka\*, Satoshi Matsumoto, Tomonori Shibata, Kei-ichi Shinozaki


**The synthesis of pyrrolo[2,3-c][1,2,6]thiadiazine-5-carbonitriles from (4H-1,2,6-thiadiazin-4-ylidene)malononitriles**

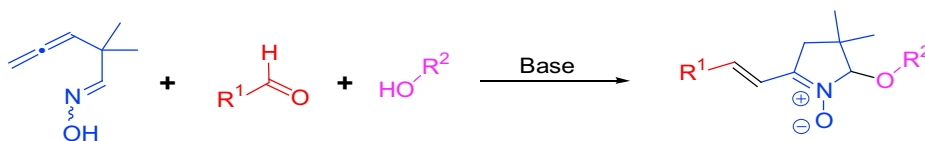
pp 1817–1820

Andreas S. Kalogirou, Panayiotis A. Koutentis\*, Maria D. Rikkou


**One-pot, three-component synthesis of five-membered cyclic nitrones by addition/cyclization/condensation domino reaction**

pp 1821–1826

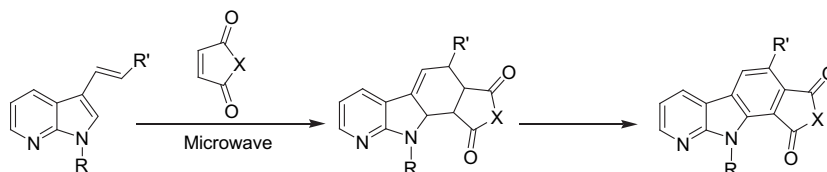
Marian Buchlovič, Stanislav Man, Konstantin Kislitsõn, Charlotte Mathot, Milan Potáček\*



**A rapid method toward the synthesis of new substituted tetrahydro  $\alpha$ -carbolines and  $\alpha$ -carbolines**

pp 1827–1831

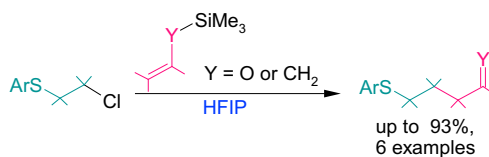
Neelam L. Chavan, Sandip K. Nayak, Radhika S. Kusurkar\*



**Elaboration of a Lewis acid-free protocol for the alkylation of silicon-containing  $\pi$ -donors by  $\beta$ -arythioalkyl chlorides**

pp 1832–1836

Maxim O. Ratnikov\*, Vasily V. Tumanov, William A. Smit

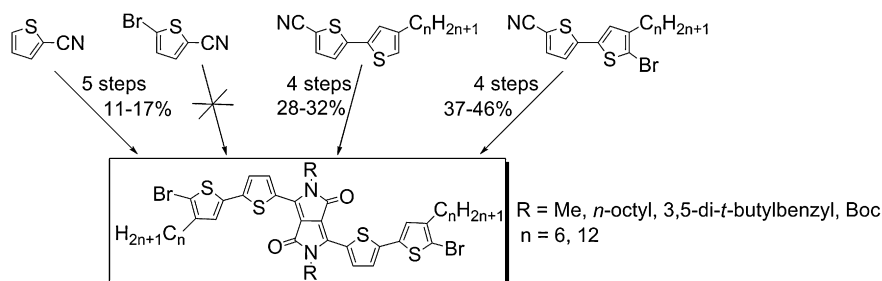


Electrophilic activation is achieved using hexafluoroisopropanol (HFIP) as a medium and an electrophilic driver.

**Synthesis of diketopyrrolopyrrole (DPP) derivatives comprising bithiophene moieties**

pp 1837–1845

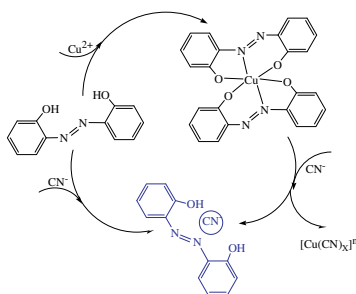
Sara Stas, Sergey Sergeyev, Yves Geerts\*



**2, 2'-Dihydroxyazobenzene-based fluorescent system for the colorimetric 'turn-on' sensing of cyanide**

pp 1846–1851

Jing Wang, Chang-Sik Ha\*



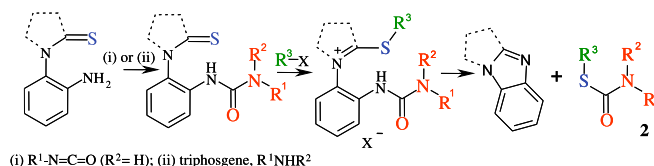
A 'new' colorimetric fluorescent 'turn-on' chemosensor that responds to cyanide (CN<sup>-</sup>) ions based on 2,2'-dihydroxy-azobenzene (DHAB) was presented.



**Metathetic sulfur transfer mediated by *N*-(2-aminophenyl)-4-methyl-thiazolin-2-thione derivatives: a route to diversely substituted *S*-alkylcarbamothioates**

pp 1852–1858

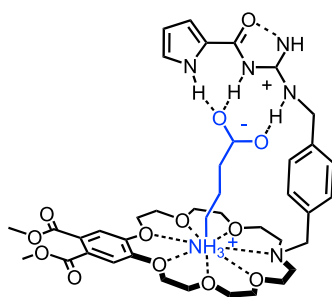
Abdallah Larbi Doukara, Mohammed Amine Mehdid, Ayada Djafri, Federico Andreoli, Nicolas Vanthuyne, Christian Roussel\*



**Ditopic crown ether–guanidinium ion receptors for the molecular recognition of amino acids and small peptides**

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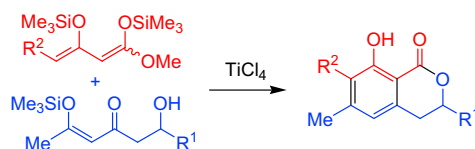
Andreas Späth, Burkhard König\*



**Chelation-control in the formal [3 + 3] cyclization of 1,3-bis-(silyloxy)-1,3-butadienes with 1-hydroxy-5-silyloxy-hex-4-en-3-ones. One-pot synthesis of 3-aryl-3,4-dihydroisocoumarins**

pp 1874–1884

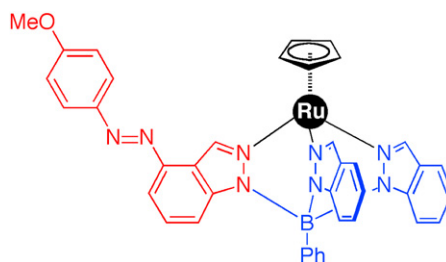
Ihsan Ullah, Muhammad Sher, Rasheed Ahmad Khara, Asad Ali, Muhammad Farooq Ibad, Alexander Villinger, Christine Fischer, Peter Langer\*



**Synthesis of a photoswitchable azobenzene-functionalized tris(indazol-1-yl) borate ligand and its ruthenium(II) cyclopentadienide complex**

pp 1885–1891

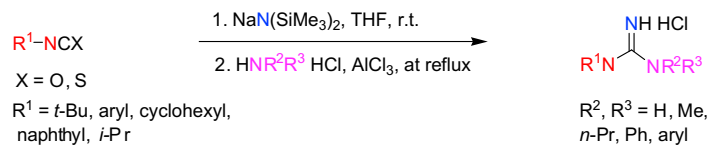
Henri-Pierre Jacquot de Rouville, Damien Villenave, Gwénaél Rapenne\*



**'One-flask' transformation of isocyanates and isothiocyanates to guanidines hydrochloride by using sodium bis(trimethylsilyl)amide**

pp 1892–1897

Chun-Yen Chen, Hui-Chang Lin, Yu-Ying Huang, Kun-Lung Chen, Jiann-Jyh Huang, Mou-Yung Yeh\*, Fung Fuh Wong\*

**Al-MCM-41 catalyzed three-component Strecker-type synthesis of  $\alpha$ -aminonitriles**

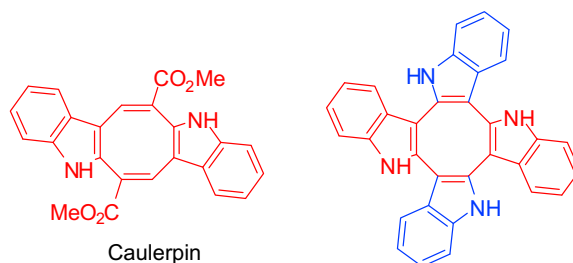
pp 1898–1901

Katsuyuki Iwanami, Hana Seo, Jun-Chul Choi, Toshiyasu Sakakura, Hiroyuki Yasuda\*

**A study on the synthesis of structural analogs of bis-indole alkaloid caulerpin: a step-by-step synthesis of a cyclic indole-tetramer**

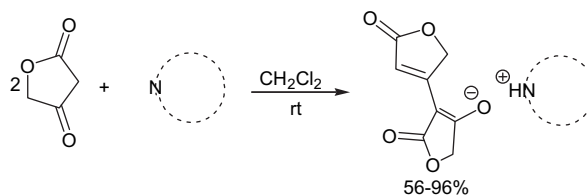
pp 1902–1910

Oktay Talaz, Nurullah Saracoglu\*

**Unexpected Knoevenagel self-condensation reaction of tetrionic acid: synthesis of a new class of organic heterocyclic salts**

pp 1911–1914

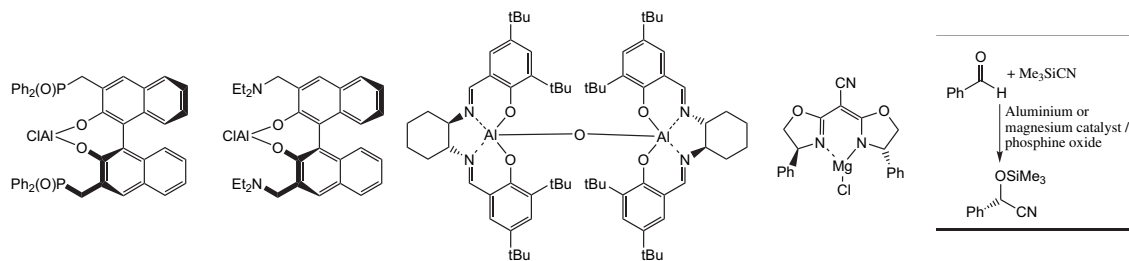
Ahmad Shaabani\*, Afshin Sarvary, Sajjad Keshipour, Ali Hossein Rezayan, Rahim Ghadari

ammonium=pyridine, quinoline, isoquinoline, *N*-methylimidazole and DABCO

**Mechanistic comparison of aluminium based catalysts for asymmetric cyanohydrin synthesis**

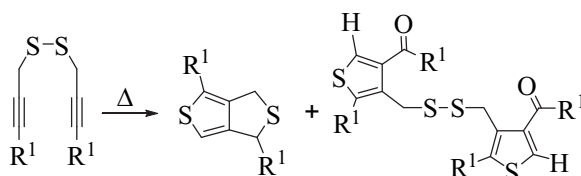
pp 1915–1924

Michael North\*, Pedro Villuendas, Courtney Williamson

**Synthesis and reactivity of dipropargylic disulfides: tandem rearrangements, cyclization, and oxidative dimerization**

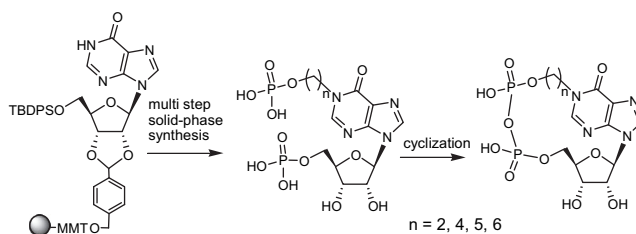
pp 1925–1930

Samuel Braverman\*, Marina Cherkinsky, David Meridor, Milon Sprecher

**A solid-phase approach to the synthesis of N-1-alkyl analogues of cyclic inosine-diphosphate-ribose (CIDPR)**

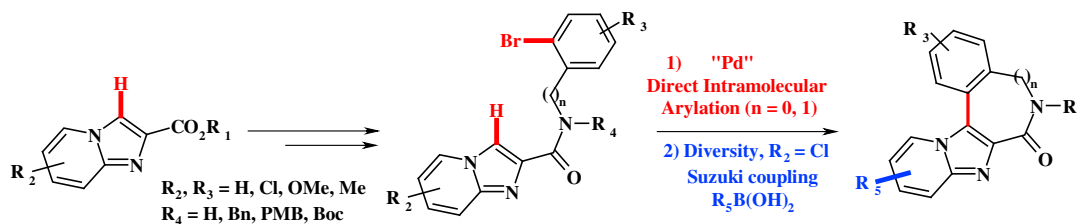
pp 1931–1936

Giorgia Oliviero, Stefano D'Errico, Nicola Borbone, Jussara Amato, Vincenzo Piccialli, Michela Varra, Gennaro Piccialli\*, Luciano Mayol

**Intramolecular arylation reactions: first efficient synthesis of novel fused pyridoimidazoquinolinones or pyridoimidazoazepinones libraries**


pp 1937–1946

J. Koubachi, S. Berteina-Raboin\*, A. Mouaddib, G. Guillaumet



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\*Corresponding author

 Supplementary data available via ScienceDirect



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